

Artificial Intelligence

Master Index

Volumes 31-40

ANDERSON, J.R. (Pittsburgh, PA)	
A Theory of the Origins of Human Knowledge	40 (1989) 313-351
APPELT, D.E., see GROSZ, B.J.	32 (1987) 173-243
ARNON, D.S. (Palo Alto, CA)	
Geometric Reasoning with Logic and Algebra	37 (1988) 37- 60
BARRY, M., D. CYRLUK, D. KAPUR, J. MUNDY and V.-D. NGUYEN (Schenectady, NY)	
A Multi-Level Geometric Reasoning System for Vision	37 (1988) 291-332
BERLINER, H. (Pittsburgh, PA) and C. EBELING (Seattle, WA)	
Pattern Knowledge and Search: The SUPREM Architecture	38 (1989) 161-198
BESNARD, P., Y. MOINARD (Rennes, France) and R.E. MERCER (London, Ont.)	
The Importance of Open and Recursive Circumscription (Research Note)	39 (1989) 251-262
BIBEL, W. (Vancouver, BC)	
Constraint Satisfaction from a Deductive Viewpoint (Research Note)	35 (1988) 401-413
BODDY, M., see DEAN, T.L.	36 (1988) 375-399
BOOKER, L.B., D.E. GOLDBERG and J.H. HOLLAND (Ann Arbor, MI)	
Classifier Systems and Genetic Algorithms	40 (1989) 235-282
BOŽINOVIC, R.M., see SRIHARI, S.N.	33 (1987) 217-255
BRADY, M., see CONNELL, J.H.	31 (1987) 159-183
BRADY, M., see HORAUD, R.	37 (1988) 333-353
BUNDY, A., see VAN HARMELEN, F.	36 (1988) 401-412
BUNTINE, W. (Broadway, Australia)	
Generalized Subsumption and Its Applications to Induction and Redundancy	36 (1988) 149-176
CANNY, J. (Cambridge, MA)	
Constructing Roadmaps of Semi-Algebraic Sets I: Completeness	37 (1988) 203-222
CARBONELL, J.G. (Pittsburgh, PA)	
Introduction: Paradigms for Machine Learning	40 (1989) 1- 9
CARBONELL, J.G., see MINTON, S.	40 (1989) 63-118

CHAKRABARTI, P.P., S. GHOSE and S.C. DeSARKAR (Kharagpur, India)	
Admissibility of AO* When Heuristics Overestimate (Research Note)	34 (1988) 97-113
CHARNIAK, E. (Providence, RI)	
Motivation Analysis, Abductive Unification, and Nonmonotonic Equality	34 (1988) 275-295
CHAPMAN, D. (Cambridge, MA)	
Planning for Conjunctive Goals	32 (1987) 333-377
CHEH, C.-T., see LIN, W.-C.	38 (1989) 207-224
CHOU, T.-C., see KANATANI, K.	38 (1989) 1- 48
CONNELL, J. and BRADY, M. (Cambridge, MA)	
Generating and Generalizing Models of Visual Objects	31 (1987) 159-183
CUSHING, S. (North Easton, MA)	
Some Quantifiers Require Two-Predicate Scopes (Research Note)	32 (1987) 259-267
CVETKOVIĆ, D. and I. PEVAC (Belgrade, Yugoslavia)	
Man-Machine Theorem Proving in Graph Theory	35 (1988) 1- 23
CYRLUK, D., see BARRY, M.	37 (1988) 291-332
DAVIS, E. (New York)	
Constraint Propagation with Interval Labels	32 (1987) 281-331
DEAN, T.L. and BODDY, M. (Providence, RI)	36 (1988) 375-399
DEAN, T.L. (Providence, RI) and D.V. McDERMOTT (New Haven, CT)	
Temporal Data Base Management	32 (1987) 1- 55
DECHTER, R. and J. PEARL (Los Angeles, CA)	
Network-Based Heuristics for Constraint-Satisfaction Problems	34 (1988) 1- 38
DECHTER, R. and J. PEARL (Los Angeles, CA)	
Tree Clustering for Constraint Networks (Research Note)	38 (1989) 353-366
DE KLEER, J. (Palo Alto, CA) and K. KONOLIGE (Menlo Park)	
Eliminating the Fixed Predicates from a Circumscription (Research Note)	39 (1989) 391-398
DE KLEER, J. (Palo Alto, CA) and B.C. WILLIAMS (Cambridge, MA)	
Diagnosing Multiple Faults	32 (1987) 97-130
DELGRANDE, J.P. (Burnaby, BC)	
A First-Order Conditional Logic for Prototypical Properties	33 (1987) 105-130
DELGRANDE, J.P. (Burnaby, BC)	
An Approach to Default Reasoning Based on a First-Order Conditional Logic: Revised Report	36 (1988) 63- 90
DeSARKAR, S.C., see CHAKRABARTI, P.P.	34 (1988) 97-113
DONALD, B.R. (Cambridge, MA)	
A Search Algorithm for Motion Planning with Six Degrees of Freedom	31 (1987) 295-353
DONALD, B.R. (Ithaca, NY)	
A Geometric Approach to Error Detection and Recovery for Robot Motion Planning with Uncertainty	37 (1988) 223-271
DUBOIS, D. and H. PRADE (Toulouse, France)	
Default Reasoning and Possibility Theory (Research Note)	35 (1988) 243-257
EBELING, C., see BERLINER, H.	38 (1989) 161-198
ESCALADA-IMAZ, G. and M. GHALLAB (Toulouse, France)	
A Practically Efficient and Almost Linear Unification Algorithm (Research Note)	36 (1988) 249-263

ETHERINGTON, D.W. (Murray Hill, NJ)	
Formalizing Nonmonotonic Reasoning Systems	31 (1987) 41- 85
Errata	34 (1988) 395
ETZIONI, O., see MINTON, S.	40 (1989) 63-118
FAGIN, R. and J.Y. HALPERN (San Jose, CA)	
Belief, Awareness, and Limited Reasoning	34 (1988) 39- 76
FISHER, D., see GENNARI, J.H.	40 (1989) 11- 61
FLEMING, A. (Edinburgh, Scotland)	
Geometric Relationships between Toleranced Features	37 (1988) 403-412
GARDIN, F. and B. MELTZER (Ispra, Italy)	
Analogical Representations of Naive Physics	38 (1989) 139-159
GELFOND, M., H. PRZYMUSINSKA and T. PRZYMUSINSKI (El Paso, TX)	
On the Relationship between Circumscription and Negation as Failure	38 (1989) 75- 94
GENNARI, J.H., P. LANGLEY and D. FISHER (Irvine, CA)	
Model of Incremental Concept Formation	40 (1989) 11- 61
GHALLAB, M., see ESCALADA-IMAZ, G.	36 (1988) 249-263
GHOSE, S., see CHAKRABARTI, P.P.	34 (1988) 97-113
GIL, Y., see MINTON, S.	40 (1989) 63-118
GINSBERG, A., S.M. WEISS and P. POLITAKIS (New Brunswick, NJ)	
Automatic Knowledge Base Refinement for Classification Systems	35 (1988) 197-226
GINSBERG, M.L. (Stanford, CA)	
A Circumscriptive Theorem Prover	39 (1989) 209-230
GINSBERG, M.L. and D.E. SMITH (Stanford, CA)	
Reasoning about Action I: A Possible Worlds Approach	35 (1988) 165-195
GINSBERG, M.L. and D.E. SMITH (Stanford, CA)	
Reasoning about Action II: The Qualification Problem	35 (1988) 311-342
GOGUEN, J.A. (Menlo Park/Stanford, CA)	
Modular Algebraic Specification of Some Basic Geometrical Constructions	37 (1988) 123-153
GOLDBERG, D.E., see BOOKER, L.B.	40 (1989) 235-282
GREINER, R. (Toronto, Ont.)	
Learning by Understanding Analogies	35 (1988) 81-125
GROSZ, B.J., D.E. APPELT, P.A. MARTIN and F.C.N. PEREIRA (Menlo Park, CA)	
TEAM: An Experiment in the Design of Transportable Natural-Language Interfaces	32 (1987) 173-243
GÜSGEN, H.-W. and J. HERTZBERG (St. Augustin, F.R.G.)	
Some Fundamental Properties of Local Constraint Propagation (Research Note)	36 (1988) 237-247
HALL, R.P. (Irvine, CA)	
Computational Approaches to Analogical Reasoning: A Comparative Analysis	39 (1989) 39-120
HALPERN, J.Y. (San Jose, CA) and M.O. RABIN (Jerusalem, Israel/Cambridge, MA)	
A Logic to Reason about Likelihood	32 (1987) 379-405
HALPERN, J.Y., see FAGIN, R.	34 (1988) 39- 76

- HAN, C.-C. and C.-H. LEE (West Lafayette, IN)
 Comments on Mohr and Henderson's Path Consistency Algorithm
 (Research Note) 36 (1988) 125-130
- HANKS, S. and D.V. McDERMOTT (New Haven, CT)
 Nonmonotonic Logic and Temporal Projection 33 (1987) 379-412
- HAUSSLER, D. (Santa Cruz, CA)
 Quantifying Inductive Bias: AI Learning Algorithms and Valiant's
 Learning Framework 36 (1988) 177-221
- HERMAN, M., see WALKER, E.L. 37 (1988) 275-290
- HERTZBERG, J., see GÜSGEN, H.-W. 36 (1988) 237-247
- HINTON, G.E. (Toronto, Ont.)
 Connectionist Learning Procedures 40 (1989) 185-234
- HIRST, G. (Toronto, Ont.)
 Semantic Interpretation and Ambiguity 34 (1988) 131-177
- HOFFMANN, C. (West Lafayette, IN) and J. HOPCROFT (Ithaca, NY)
 The Geometry of Projective Blending Surfaces 37 (1988) 357-376
- HOGG, T., see HUBERMAN, B.A. 33 (1987) 155-171
- HOLLAND, J.H., see BOOKER, L.B. 40 (1989) 235-282
- HOPCROFT, J., see HOFFMANN, C. 37 (1988) 357-376
- HORAUD, R. (Grenoble, France) and M. BRADY (Oxford, England)
 On the Geometric Interpretation of Image Contours 37 (1988) 333-353
- HUBERMAN, B.A. and T. HOGG (Palo Alto, CA)
 Phase Transitions in Artificial Intelligence Systems 33 (1987) 155-171
- IMIELINSKI, T. (New Brunswick, NJ/Warsaw, Poland)
 Results on Translating Defaults to Circumscription (Research Note) 32 (1987) 131-146
 Errata 33 (1987) 413
- JACOBS, P.S. (Schenectady, NY)
 Knowledge-Intensive Natural Language Generation 33 (1987) 325-378
- KANATANI, K. (Gunma, Japan) and T.-C. CHOU (College Park, MD)
 Shape from Texture: General Principle 38 (1989) 1- 48
- KAPUR, D. (Schenectady, NY)
 A Refutational Approach to Geometry Theorem Proving 37 (1988) 61- 93
- KAPUR, D. (Albany, NY) and J.L. MUNDY (Schenectady, NY)
 Geometric Reasoning and Artificial Intelligence: Introduction to the
 Special Volume 37 (1988) 1- 11
- KAPUR, D. and J.L. MUNDY (Schenectady, NY)
 Wu's Method and Its Application to Perspective Viewing 37 (1988) 15- 36
- KAPUR, D. and D.R. MUSSER (Schenectady, NY)
 Proof by Consistency 31 (1987) 125-157
- KAPUR, D., see BARRY, M. 37 (1988) 291-332
- KASS, M., see TERZOPoulos, D. 36 (1988) 91-123
- KELLER, R. (Stanford, CA)
 Defining Operability for Explanation-Based Learning 35 (1988) 227-241
- KNOBLOCK, C.A., see MINTON, S. 40 (1989) 63-118
- KO, H.-P. (Bedford, MA)
 Geometry Theorem Proving by Decomposition of Quasi-Algebraic Sets:
 An Application of the Ritt-Wu Principle 37 (1988) 95-122

KONOLIGE, K. (Menlo Park, CA)		
On the Relation between Default and Autoepistemic Logic	35	(1988) 343-382
KONOLIGE, K., see DE KLEER, J.	39	(1989) 391-398
KORF, R.E. (Los Angeles, CA)		
Planning as Search: A Quantitative Approach	33	(1987) 65- 88
KUOKKA, D.R., see M'INTON, S.	40	(1989) 63-118
KWA, J.B.H. (Edinburgh, Scotland)		
BS*: An Admissible Bidirectional Staged Heuristic Search Algorithm (Research Note)	38	(1989) 95-109
KYBURG, Jr., H.E. (Rochester, NY)		
Bayesian and Non-Bayesian Evidential Updating	31	(1987) 271-293
Addendum	36	(1988) 265-266
LAIRD, J.E. (Ann Arbor, MI), A. NEWELL (Pittsburgh, PA) and P.S. ROSENBLUM (Stanford, CA)		
SOAR: An Architecture for General Intelligence	33	(1987) 1- 64
LANGLEY, P. (Irvine, CA) and J.M. ZYTKOW (Wichita, KS)		
Data-Driven Approaches to Empirical Discovery	40	(1989) 283-312
LANGLEY, P., see GENNARI, J.H.	40	(1989) 11- 61
LEAKE, D.B., see SCHANK, R.C.	40	(1989) 353-385
LEE, C.-H. (West Lafayette, IN)		
A Comparison of Two Evidential Reasoning Schemes (Research Note)	35	(1988) 127-134
LEE, C.-H. (West Lafayette, IN)		
Interpreting Image Curve from Multiframe	35	(1988) 145-163
LEE, C.-H., see HAN, C.-C.	36	(1988) 125-130
LEE, K.-F. and S. MAHAJAN (Pittsburgh, PA)		
A Pattern Classification Approach to Evaluation Function Learning	36	(1988) 1- 25
LEYTON, M. (New Brunswick, NJ)		
A Process-Grammar for Shape	34	(1988) 213-247
LIANG, C.-C., see LIN, W.-C.	38	(1989) 207-224
LIFSCHITZ, V. and A. RABINOV (Stanford, CA)		
Miracles in Formal Theories of Action (Research Note)	38	(1989) 225-237
LIN, W.-C., C.-C. LIANG (Evanston, IL) and C.-T. CHEN (Chicago, IL)		
A Computational Model for Process-Grammar (Research Note)	38	(1989) 207-224
LOGAN, R., see SHAFER, G.	33	(1987) 271-298
LOWE, D.G. (New York)		
Three-Dimensional Object Recognition from Single Two-Dimensional Images	31	(1987) 355-395
MacGREGOR, J.N. (Victoria, BC)		
The Effects of Order on Learning Classifications by Example:		
Heuristics for Finding the Optimal Order (Research Note)	34	(1988) 361-370
MAHAJAN, S., see LEE, K.-F.	36	(1988) 1- 25
MARCUS, S. (Seattle, WA) and J. McDERMOTT (Pittsburgh, PA)		
SALT: A Knowledge Acquisition Language for Propose-and-Revise Systems	39	(1989) 1- 37
MARSLAND, T.A., A. REINEFELD and J. SCHAEFFER (Edmonton, Alta.)		
Low Overhead Alternatives to SSS* (Research Note)	31	(1987) 185-199

MARTIN, P.A., see GROSZ, B.J.	32	(1987) 173-243
MARTINS, J.P. (Lisboa, Portugal) and S.C. SHAPIRO (Buffalo, NY)		
A Model for Belief Revision	35	(1988) 25- 79
MCALLESTER, D.A. (Ithaca, NY)		
Conspiracy Numbers for Min-Max Search	35	(1988) 287-310
McDERMOTT, D.V., see DEAN, T.L.	32	(1987) 1- 55
McDERMOTT, D.V., see HANKS, S.	33	(1987) 379-412
McDERMOTT, D.V., see SHOHAM, Y.	36	(1988) 49- 61
McDERMOTT, J., see MARCUS, S.	39	(1989) 1- 37
MELTZER, B., see GARDIN, F.	38	(1989) 139-159
MERCER, R.E., see BESNARD, P.	39	(1989) 251-262
MILENKOVIC, V.J. (Pittsburgh, PA)		
Verifiable Implementations of Geometric Algorithms Using Finite Precision Arithmetic	37	(1988) 377-401
MINTON, S., J.G. CARBONELL, C.A. KNOBLOCK, D.R. KUOKKA,		
O. ETZIONI and Y. GIL (Pittsburgh, PA)	40	(1989) 63-118
MITCHELL, J.S.B. (Ithaca, NY)		
Explanation-Based Learning: A Problem Solving Perspective	37	(1988) 171-201
MOINARD, Y., see BESNARD, P.	39	(1989) 251-262
MORRIS, P.H. (Mountain View, CA)		
The Anomalous Extension Problem in Default Reasoning	35	(1988) 383-399
MOSTOW, J. (New Brunswick, NJ)		
Design by Derivational Analogy: Issues in the Automated Replay of Design Plans	40	(1989) 119-184
MOTT, P.L. (Lancaster, England)		
A Theorem on the Consistency of Circumscription (Research Note)	31	(1987) 87- 98
MUNDY, J.L., see BARRY, M.	37	(1988) 291-332
MUNDY, J.L., see KAPUR, D.	37	(1988) 1- 11
MUNDY, J.L., see KAPUR, D.	37	(1988) 15- 36
MUSSER, D.R., see KAPUR, D.	31	(1987) 125-157
NAGEL, H.-H. (Karlsruhe, F.R.G.)		
On the Estimation of Optical Flow: Relations between Different Approaches and Some New Results	33	(1987) 299-324
NEBEL, B. (Berlin, F.R.G.)		
Computational Complexity of Terminological Reasoning in BACK (Research Note)	34	(1988) 371-383
NEWELL, A., see LAIRD, J.E.	33	(1987) 1- 64
NGUYEN, V.-D., see BARRY, M.	37	(1988) 291-332
PASTRE, D. (Paris, France)		
MUSCADET: An Automatic Theorem Proving System Using Knowledge and Metaknowledge in Mathematics	38	(1989) 257-318
PATEL-SCHNEIDER, P.F. (Palo Alto, CA)		
A Four-Valued Semantics for Terminological Logics	38	(1989) 319-351
Erratum	39	(1989) 399
PATEL-SCHNEIDER, P.F. (Murray Hill, NJ)		
Undecidability of subsumption in NIKL (Research Note)	39	(1989) 263-272

- PEARL, J. (Los Angeles, CA)
 Evidential Reasoning Using Stochastic Simulation of Causal Models
 (Research Note) 32 (1987) 245-257
 Addendum 33 (1987) 131-132
- PEARL, J. (Los Angeles, CA)
 Distributed Revision of Composite Beliefs 33 (1987) 173-215
- PEARL, J. (Los Angeles, CA)
 Embracing Causality in Default Reasoning (Research Note) 35 (1988) 259-271
- PEARL, J., see DECHTER, R. 34 (1988) 1- 38
- PEARL, J., see DECHTER, R. 38 (1989) 353-366
- PEREIRA, F.C.N., see GROSZ, B.J. 32 (1987) 173-243
- PERLIS, D. (College Park, MD)
 Circumscribing with Sets (Research Note) 31 (1987) 201-211
- PERLIS, D. (College Park, MD)
 Languages with Self-Reference II: Knowledge, Belief, and Modality 34 (1988) 179-212
- PERLIS, D. (College Park, MD)
 Autocircumscription (Research Note) 36 (1988) 223-236
- PERLIS, D. (College Park, MD)
 Truth and Meaning (Research Note) 39 (1989) 245-250
- PEVAC, I., see CVETKOVIĆ, D. 35 (1988) 1- 23
- POLITAKIS, P., see GINSBERG, A. 35 (1988) 197-226
- POOLE, D. (Waterloo, Ont.)
 A Logical Framework for Default Reasoning 36 (1988) 27- 47
- PRADE, H., see DUBOIS, D. 35 (1988) 243-257
- PRIEST, G. (Brisbane, Australia)
 Reasoning about Truth (Research Note) 39 (1989) 231-244
- PRZYMUSINSKA, H., see GELFOND, M. 38 (1989) 75- 94
- PRZYMUSINSKI, T.C. (El Paso, TX)
 An Algorithm to Compute Circumscription 38 (1989) 49- 73
- PRZYMUSINSKI, T.C., see GELFOND, M. 38 (1989) 75- 94
- RABIN, M.O., see HALPERN, J.Y. 32 (1987) 379-405
- RABINOV, A. (Stanford, CA)
 A Generalization of Collapsible Cases of Circumscription (Research Note) 38 (1989) 111-117
- RABINOV, A., see LIFSHITZ, V. 38 (1989) 225-237
- REINEFELD, A., see MARSLAND, T.A. 31 (1987) 185-199
- REITER, R. (Toronto, Ont.)
 A Theory of Diagnosis from First Principles 32 (1987) 57- 95
- RIVEST, R.L. (Cambridge, MA)
 Game Tree Searching by Min/Max Approximation 34 (1988) 77- 96
- ROSENBLUM, P.S., see LAIRD, J.E. 33 (1987) 1- 64
- SCHAEFFER, J., see MARSLAND, T.A. 31 (1987) 185-199
- SCHANK, R.C. and D.B. LEAKE (New Haven, CT)
 Creativity and Learning in a Case-Based Explainer 40 (1989) 353-385
- SCHWARTZ, J.T. and M. SHARIR (New York/Tel-Aviv, Israel)
 A Survey of Motion Planning and Related Geometric Algorithms 37 (1988) 157-169

SEJNOWSKI, T.J., see TESAURO, G.	39 (1989) 357-390
SHAFER, G. and R. LOGAN (Lawrence, KS)	
Implementing Dempster's Rule for Hierarchical Evidence	33 (1987) 271-298
SHAPIRO, S.C., see MARTINS, J.P.	35 (1988) 25- 79
SHARIR, M., see SCHWARTZ, J.T.	37 (1988) 157-169
SHASTRI, L. (Philadelphia, PA)	
Default Reasoning in Semantic Networks: A Formalization of Recognition and Inheritance	39 (1989) 283-355
SHAW, D.E. (New York)	
On the Range of Applicability of an Artificial Intelligence Machine	32 (1987) 151-172
SHOHAM, Y. (New Haven, CT)	
Temporal Logics in AI: Semantical and Ontological Considerations	33 (1987) 89-104
SHOHAM, Y. (Stanford, CA)	
Chronological Ignorance: Experiments in Nonmonotonic Temporal Reasoning	36 (1988) 279-331
SHOHAM, Y. (Stanford, CA) and D.V. McDERMOTT (New Haven, CT)	
Problems in Formal Temporal Reasoning	36 (1988) 49- 61
G.F. SHVARTS (Pereslavl-Zalesky, U.S.S.R.)	
Fixed Points in the Propositional Nonmonotonic Logic (Research Note)	38 (1989) 199-206
SMITH, D.E. (Palo Alto, CA)	
Controlling Backward Inference	39 (1989) 145-208
SMITH, D.E., see GINSBERG, M.L.	35 (1988) 165-195
SMITH, D.E., see GINSBERG, M.L.	35 (1988) 311-342
SRIHARI, S.N. and R.M. BOŽINOVIC (Buffalo, NY)	
A Multi-Level Perception Approach to Reading Cursive Script	33 (1987) 217-255
TERZOPOULOS, D., A. WITKIN and M. KASS (Palo Alto, CA)	
Constraints on Deformable Models: Recovering 3D Shape and Nonrigid Motion	36 (1988) 91-123
TESAURO, G. (Urbana-Champaign, IL) and T.J. SEJNOWSKI (Baltimore, MD)	
A Parallel Network that Learns to Play Backgammon	39 (1989) 357-390
VAN HARMELEN, F. and A. BUNDY (Edinburgh, Scotland)	
Explanation-Based Generalisation = Partial Evaluation (Research Note)	36 (1988) 401-412
VANLEHN, K. (Pittsburgh, PA)	
Learning One Subprocedure per Lesson	31 (1987) 1- 40
WALKER, E.L. (Pittsburgh, PA) and M. HERMAN (Gaithersburg, MD)	
Geometric Reasoning for Constructing 3D Scene Descriptions from Images	37 (1988) 275-290
WEISS, S.M., see GINSBERG, A.	35 (1988) 197-226
WELD, D.S. (Cambridge, MA)	
Comparative Analysis	36 (1988) 333-373
WILLIAMS, B.C., see DE KLEER, J.	32 (1987) 97-130
WITKIN, A., see TERZOPOULOS, D.	36 (1988) 91-123

YAGER, R.R. (New Rochelle, NY)

Using Approximate Reasoning to Represent Default Knowledge
(Research Note)

31 (1987) 99-112

YEAP, W.K. (Dunedin, New Zealand)

Towards a Computational Theory of Cognitive Maps

34 (1988) 297-360

ZYTKOW, J.M., see LANGLEY, P.

40 (1989) 283-312